

Title (en)

METHOD AND APPARATUS FOR SELECTING NEIGHBOR CELLS IN MOBILE COMMUNICATION SYSTEM

Title (de)

VERFAHREN UND VORRICHTUNG ZUR AUSWAHL VON NACHBARZELLEN IN EINEM MOBILEN KOMMUNIKATIONSSYSTEM

Title (fr)

PROCÉDÉ ET APPAREIL POUR SÉLECTIONNER DES CELLULES VOISINES DANS UN SYSTÈME DE COMMUNICATION MOBILE

Publication

EP 2764731 A4 20160127 (EN)

Application

EP 12837908 A 20121004

Priority

- US 201161543475 P 201111005
- US 201161545363 P 201111010
- KR 2012008033 W 20121004

Abstract (en)

[origin: US2013089029A1] A neighbor cell search method and apparatus of a User Equipment (UE) is provided for performing the cell search procedure with the utilization of a Physical Cell Identity (PCI) list of PCIs used by evolved Node Bs (eNBs) for a Closed Subscriber Group (CSG) which is from an eNB in a Long Term Evolution (LTE) system. The cell search method includes selecting a cell of a base station, receiving system information including a Physical Cell Identity (PCI) list used by neighbor Closed Subscribed Group (CSG) cells of the base station, determining whether the terminal is in an any cell selection state for selecting any cell, and searching, when the terminal is in the any cell selection state, neighbor cells without application of the PCI list. The cell search method and apparatus are capable of performing the cell search procedure to appropriate eNBs, resulting in improvement of network attachment efficiency.

IPC 8 full level

H04W 48/08 (2009.01); **H04W 48/16** (2009.01)

CPC (source: EP KR RU US)

H04W 8/186 (2013.01 - US); **H04W 36/0061** (2013.01 - US); **H04W 48/16** (2013.01 - EP KR US); **H04W 48/20** (2013.01 - KR US); **H04W 8/186** (2013.01 - RU); **H04W 36/0061** (2013.01 - RU); **H04W 48/16** (2013.01 - RU); **H04W 48/20** (2013.01 - RU); **H04W 84/042** (2013.01 - US); **H04W 84/045** (2013.01 - US)

Citation (search report)

- [Y] US 2011216732 A1 20110908 - MAEDA MIHO [JP], et al
- [A] EP 2369875 A1 20110928 - MITSUBISHI ELECTRIC CORP [JP]
- [A] US 2010110945 A1 20100506 - KOSKELA JARKKO TUOMO [FI], et al
- [Y] LG ELECTRONICS INC: "Applicable Scope of PCI/PSC range of CSG cells", 3GPP DRAFT; R2-115448.ZIP:R2-115448 75#30 REPORT OF [75#30] SCOPE OF PCI RANGE INFO FOR CSG CELLS_V2, 3RD GENERATION PARTNERSHIP PROJECT (3GPP), MOBILE COMPETENCE CENTRE ; 650, ROUTE DES LUCIOLES ; F-06921 SOPHIA-ANTIPOLIS CEDEX ; FRANCE, vol. RAN WG2, no. Zhuhai; 20111010, 4 October 2011 (2011-10-04), XP050540893
- See also references of WO 2013051853A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

US 2013089029 A1 20130411; **US 9185638 B2 20151110**; AU 2012319335 A1 20140313; AU 2012319335 B2 20160929; BR 112014008194 A2 20170411; BR 112014008194 B1 20220104; CA 2850750 A1 20130411; CA 2850750 C 20201215; CN 103858489 A 20140611; CN 112333781 A 20210205; CN 112333781 B 20220531; EP 2764731 A1 20140813; EP 2764731 A4 20160127; EP 2764731 B1 20170906; EP 3277024 A1 20180131; EP 3277024 B1 20190925; ES 2751740 T3 20200401; KR 101919815 B1 20181119; KR 20130037176 A 20130415; RU 2014113396 A 20151010; RU 2625563 C2 20170714; US 10057841 B2 20180821; US 2016066229 A1 20160303; US 2016353365 A1 20161201; US 9420509 B2 20160816; WO 2013051853 A1 20130411

DOCDB simple family (application)

US 201213644652 A 20121004; AU 2012319335 A 20121004; BR 112014008194 A 20121004; CA 2850750 A 20121004; CN 201280049258 A 20121004; CN 202011050823 A 20121004; EP 12837908 A 20121004; EP 17189488 A 20121004; ES 17189488 T 20121004; KR 2012008033 W 20121004; KR 20120109917 A 20121004; RU 2014113396 A 20121004; US 201514936152 A 20151109; US 201615234799 A 20160811